

09/667,569 SEARCH RESULTS/HISTORY

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT  
13:35:40 ON 04 MAR 2003

L1 272 S (PANTOTHENATE (W) KINASE) OR (PANTOTHENIC (W) ACID (W) KINASE  
L2 63 S L1 AND (MUTANT OR MUTAGENESIS OR MUTATION OR SUBSTITUT? OR RE  
L3 26 DUP REM L2 (37 DUPLICATES REMOVED)

=>

	Hits	Search Text	DBs
1	2	pantothenate near10 bacillus	USPAT; US-PGPUB; EPO; JPO; DERWENT
2	6	pantothenate and pane	USPAT; US-PGPUB; EPO; JPO; DERWENT
3	27450	((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase) or pane!	USPAT; US-PGPUB; EPO; JPO; DERWENT
4	3601	((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase) or pane!) and panto\$ or pantothenate	USPAT; US-PGPUB; EPO; JPO; DERWENT
5	53	"l3" and overexpress	USPAT; US-PGPUB; EPO; JPO; DERWENT
6	9	((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase)	USPAT; US-PGPUB; EPO; JPO; DERWENT
7	2	5518906.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT
8	19	panto\$ and (coax or (pantothenate adj kinase))	USPAT; US-PGPUB; EPO; JPO; DERWENT
9	333	kinase and reductase and panto\$	USPAT; US-PGPUB; EPO; JPO; DERWENT
10	32	kinase near10 reductase and panto\$	USPAT; US-PGPUB; EPO; JPO; DERWENT
11	12	(pantothenate adj kinase) or (pantothenic adj acid adj kinase)	USPAT; US-PGPUB; EPO; JPO; DERWENT



National  
Library  
of Medicine



PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books
Search <b>PubMed</b> <input style="width: 100px;" type="text"/> for <input style="width: 150px;" type="text"/>						<input type="button" value="Preview"/> <input type="button" value="Go"/> <input type="button" value="Clear"/>		
<a href="#">Limits</a> <a href="#">Preview/Index</a> <a href="#">History</a> <a href="#">Clipboard</a>						<a href="#">Details</a>		

[About Entrez](#)

[Text Version](#)

#### Entrez PubMed

[Overview](#)

[Help | FAQ](#)

[Tutorial](#)

[New/Noteworthy](#)

[E-Utilities](#)

#### PubMed Services

[Journals Database](#)

[MeSH Browser](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[LinkOut](#)

[Cubby](#)

#### Related Resources

[Order Documents](#)

[NLM Gateway](#)

[TOXNET](#)

[Consumer Health](#)

[Clinical Alerts](#)

[ClinicalTrials.gov](#)

[PubMed Central](#)

[Privacy Policy](#)

#### Search

#### Most Recent Queries

	Time	Result
#23 Related Articles for PubMed (Select 2842294)	13:41:15	<a href="#">114</a>
#21 Search Vallari and Jackowski	13:41:00	<a href="#">2</a>
#19 Related Articles for PubMed (Select 2824448)	13:26:40	<a href="#">160</a>
#17 Search "pantothenate kinase" and mutation	13:25:33	<a href="#">12</a>
#16 Search "pantothenate kinase" and substitution	13:25:26	<a href="#">0</a>
#15 Search "pantothenate kinase" and mutagenesis	13:24:32	<a href="#">3</a>
#14 Search pank and kinase and mutagenesis	13:24:17	<a href="#">0</a>
#13 Search pank and kinase and substitution	13:24:10	<a href="#">0</a>
#12 Search pank and kinase and mutant	13:24:00	<a href="#">1</a>
#11 Search pank and kinase and mutation	13:23:47	<a href="#">1</a>
#9 Search #7 AND mutant	13:21:45	<a href="#">19</a>
#8 Search #7 and mutant	13:21:35	<a href="#">113</a>
#7 Related Articles for PubMed (Select 1328157)	13:21:22	<a href="#">113</a>
#4 Related Articles for PubMed (Select 7929447)	13:19:31	<a href="#">257</a>
#2 Search #1 AND mutant	13:18:05	<a href="#">5</a>
#1 Search "pantothenate kinase"	13:17:42	<a href="#">56</a>

[Clear History](#)

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Freedom of Information Act](#) | [Disclaimer](#)

Feb 19 2003 14:38:47

## IUBMB Enzyme Nomenclature

## EC 2.7.1.33

**Common name:** pantothenate kinase

**Reaction:** ATP + pantothenate = ADP + D-4'-phosphopantothenate

**Other name(s):** pantothenate kinase (phosphorylating); pantothenic acid kinase

**Systematic name:** ATP:pantothenate 4'-phosphotransferase

**Links to other databases:** [BRENDA](#), [EXPASY](#), [KEGG](#), [WIT](#), CAS registry number: 9026-48-6

**References:**

1. Abiko, Y., Ashida, S.-I. and Shimizu, M. Purification and properties of D-pantothenate kinase from rat liver. *Biochim. Biophys. Acta* 268 (1972) 364-372. [Medline UI: [72185304](#)]
2. Brown, G.M. The metabolism of pantothenic acid. *J. Biol. Chem.* 234 (1959) 370-378.
3. Pierpoint, W.S., Hughes, D.E., Baddiley, J. and Mathias, A.P. The phosphorylation of pantothenic acid by *Lactobacillus arabinosus* 17-5. *Biochem. J.* 61 (1955) 368-374.

[EC 2.7.1.33 created 1961]

---

[Return to EC 2.7.1 home page](#)

[Return to EC 2.7 home page](#)

[Return to EC 2 home page](#)

[Return to Enzymes home page](#)

[Return to IUBMB Biochemical Nomenclature home page](#)